

## UNIclean B 12

Efficient and reliable pre-cleaning





The pre-cleaner UN1clean B 12 is an integral part of the Rieter blowroom.

## RIETER SPUN YARN SYSTEMS

**Systems for your success****RIETER – YOUR SYSTEMS SUPPLIER**

Integrated installations from Rieter offer more than just spinning machinery covering the entire process range from the fiber to the yarn. Perfect coordination of the machines throughout the process chain ensures economical manufacturing of the required yarn quality. In addition to its machine expertise and as a result of numerous technical innovations, Rieter offers its customers support from the original business idea right through to the achievement of market success through yarn innovations.

**RIETER – YOUR PARTNER FOR THE FUTURE**

With Rieter as your partner you benefit from the following supplementary services:

- Complete mill planning, spinning schedule computation and cost calculation
- Automation options tailored exactly to customer needs
- SPIDERweb data acquisition system for on-line monitoring of the entire spinning mill
- Process optimization and technical recommendations derived from broad-based technological expertise covering all spinning process stages right through to downstream processing
- World-wide service network and intensive customer training on-site or at the Rieter Training Center
- Spare parts deliveries, a broad range of innovative and technically superb solutions in the sphere of conversions

You can have confidence in solutions from Rieter!



UNIClean B 12

## PRE-CLEANER UNIClean B 12

**Economical and flexible**

The UNIClean B 12 is an efficient cleaning and dust extracting machine which is used directly downstream from the bale opening. Cotton and other natural fibers such as flax can be cleaned and freed from dust. Feeding of the card room is guaranteed for a total of 1 400 kg/h card sliver production.

**ECONOMICAL**

- Production of up to 1 400 kg/h card sliver
- Available for lower production rates of up to 1 000 kg/h card sliver
- Optimum raw material utilization
- Low air and space requirements
- Low maintenance

**FLEXIBLE**

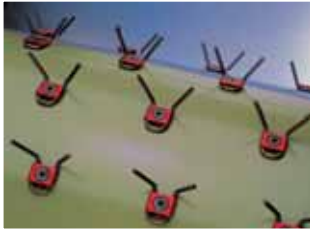
- For all types of cotton
- Easy adjustment whilst running
- Multiple assortment operation possible

**TECHNOLOGY**

- Continuous throughput machine without nipping and the use of grid knives results in gentle cleaning
- High cleaning performance
- Intensive dust extraction
- VarioSet

**SYSTEM MODULE**

- Part of the Rieter blowroom philosophy
- Connection to the blowroom control system UNIcontrol or UNIconmand



UNIClean B 12

## Mode of operation

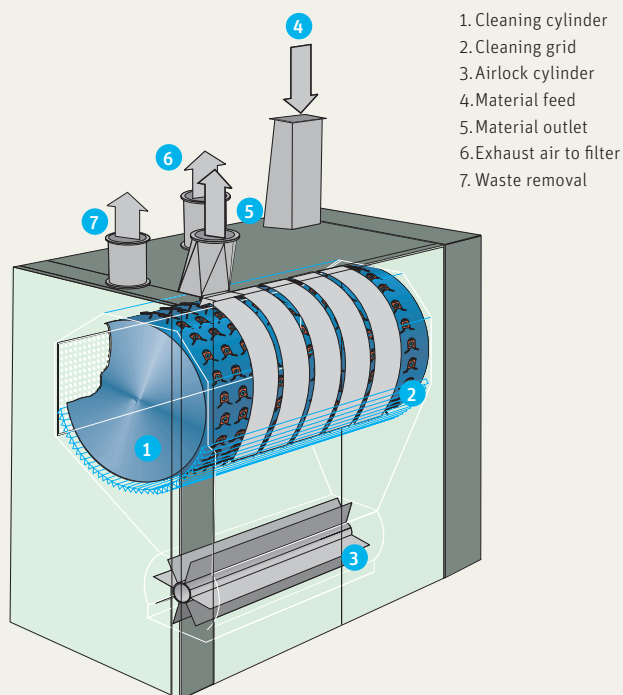
### THE UNIQUE WORKING PRINCIPLE

The material is fed to the UNIClean B 12 where it is picked up by special pins and passed five times mechanically over the cleaning grid. During the process the raw material is guided over the integrated dust extracting filter where dust, fiber fragments and fine trash particles are stripped off mechanically.

The combination of newly developed grid bars, optimized material flow and increased dedusting area guarantees an efficient cleaning effect also at high rates of production. The cleaning process is not affected by air currents and is thus controlled and effective.

Only approx. 0,5 m<sup>3</sup>/s of dust-laden air has therefore to be removed. The trash removed drops into the waste chamber and is transferred to the waste removal system by an airlock cylinder.

Since the UNIClean B 12 occupies little space it can be incorporated easily into other manufacturers' lines. Thus the cleaning performance of existing installations is enhanced.



Easy operation

IF YOU VALUE YOUR RAW MATERIAL

## Effective cleaning and dust extraction

### CLEANING CONCEPT

The UNIfloc supplies very small tufts of material. The UNIClean exploits this large surface area. Located immediately downstream from the bale opener, the UNIClean removes loose trash particles, fiber fragments and dust. It is designed for intensive cleaning. The subsequent process stages have to remove only a small fraction of the trash. At the same time the fibers are treated gently. Results in practice have shown fiber yields to be up to 2% higher than when conventional blowroom lines are used. That pays off.

### OPTIMUM CLEANING

High cleaning performance and low losses of good fiber can be quickly checked by visual waste control. The quality of waste removal can also be assessed whilst the machine is in operation.



Conventional blowroom waste

Waste from the very effective UNIClean B 12

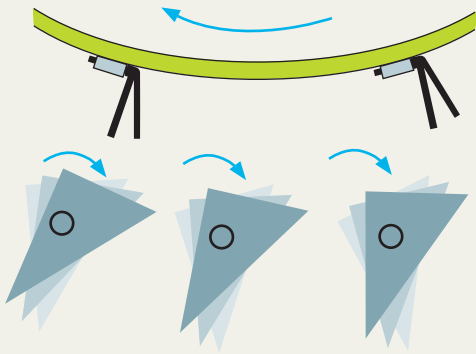


The composition of the pre-cleaning waste can be checked out readily with just a few manual operations

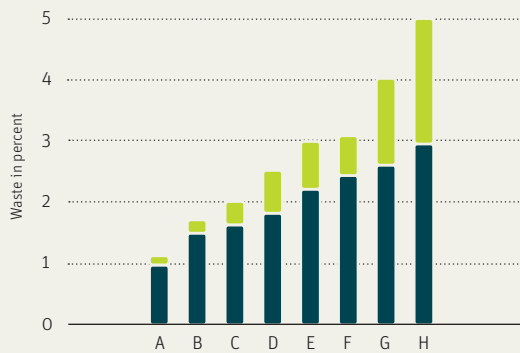


VarioSet

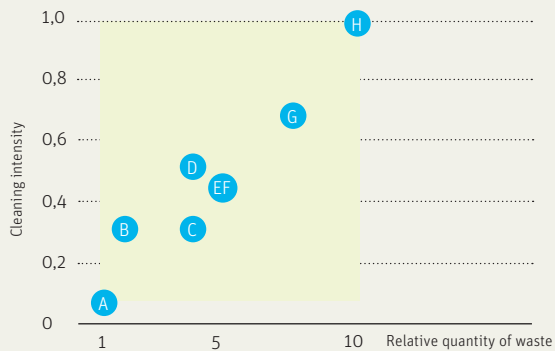
**Our experience for your blowroom at the touch of a button**



Material speed and grid angle determine the cleaning



■ Waste particles    ■ Fibers



Practical example of the effect of the VarioSet setting on the relative quantity and the composition of waste

**SIMPLE AND REPRODUCIBLE SETTINGS**

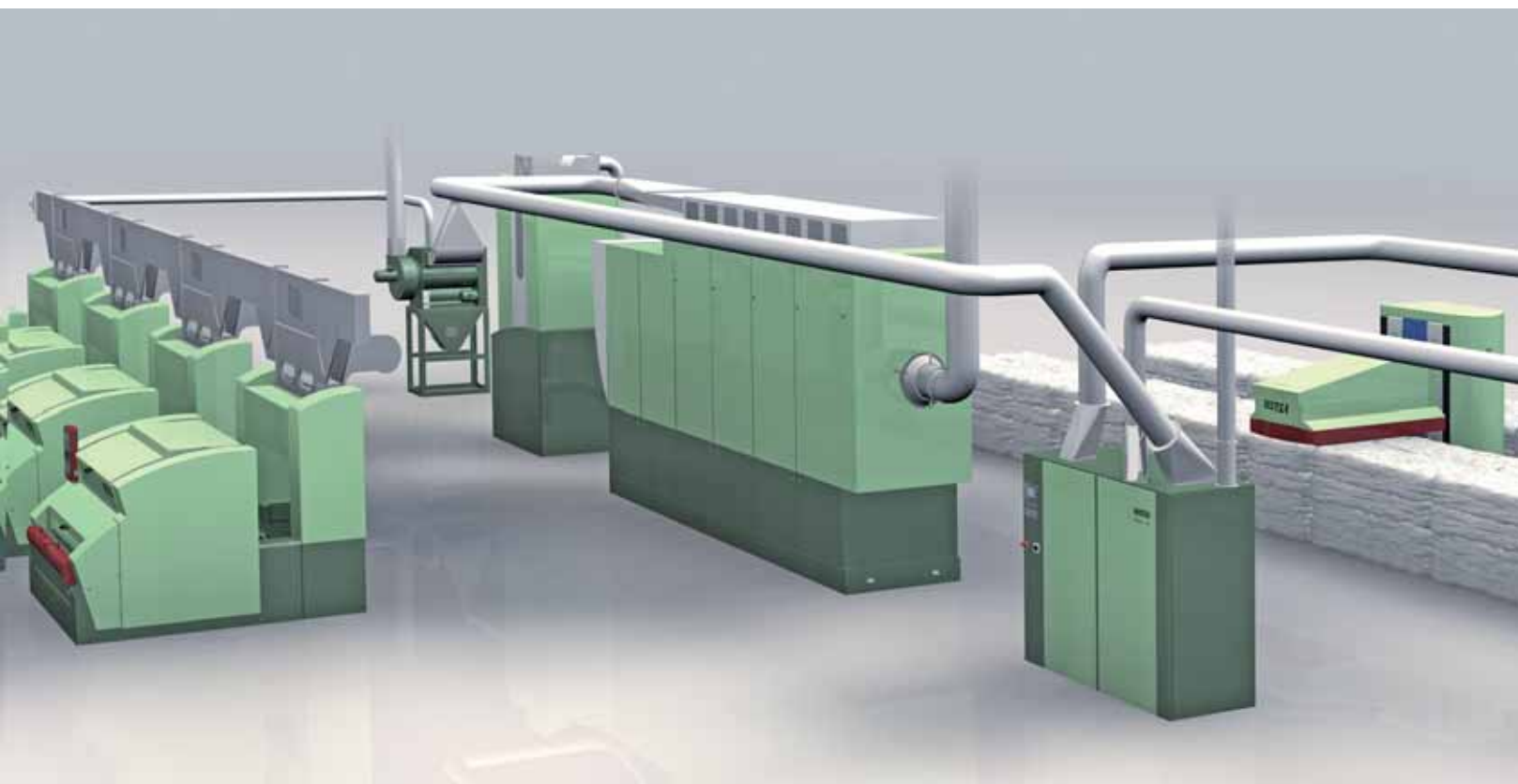
Two independent setting parameters: cleaning intensity and relative quantity of waste, are the secrets of the selective cleaning action of the UNClean B 12. Each of the VarioSet 110 working points corresponds to one setting of material speed and grid angle. Compared to conventional lines fiber yield is increased while effective cleaning is performed.

**VERY EASY OPERATION**

Two values are entered to the VarioSet: cleaning intensity set between 0,0 and 1,0, and relative quantity of waste set between 1 and 10. These values are entered directly into the machine itself or are loaded via the control system. The machine settings are made automatically, even whilst the machine is in operation. The settings are reproducible. This provides a high level of operating convenience when batch changes are frequent.

**UNIQUE MULTI-ASSORTMENT OPERATION**

The material-specific working point is selected automatically on the UNClean if the UNifloc is opening different assortments.



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